What can I do with my Major?

ENGINEERING PHYSICS

OVERVIEW OF MAJOR

“Engineering physics” refers to the use of physics to solve technical problems in manufacturing or similar mechanical systems. The bachelor of science interdisciplinary program in Engineering Physics is offered jointly by the School of Engineering and the College of Liberal Arts and Sciences Department of Physics. Engineering Physics majors have the choice of a concentration in Electrical, Mechanical, or Metallurgy and Materials Engineering. The main goal of the program is to provide students with a strong foundation in the fundamentals of physics while incorporating engineering principles. The major has a requirement of 134 credits of coursework upon graduation, which must include 4 credits of senior thesis. The first two years of study include courses in mathematics, science, computer and electrical engineering, and the humanities. The junior and senior years comprise a balanced curriculum in electrical engineering and physics.

NATURE OF WORK

The Engineering Physics program prepares students to work in the fields of microelectronics, quantum electronics, photonics, quantum optics, and instrumentation with applications in the microelectronics and computers, communications, aerospace, and energy industries. Engineering physics graduates can also work in other careers associated with physicists or electrical engineers, or in technical management.

SAMPLE JOB TITLES

Visit O*Net and conduct an Occupation Quick Search of each job title to learn more about that career path.

- Engineering Physicist
- Engineering Design Manager
- Physicist Scientists/Engineers
- Regulatory Commissioner
- Nuclear Power Plant Project Manager
- Processing Engineer
- Product Design and Development Engineers
- Staff Engineer
- Engineer Analyst
- Technical Director
- Satellite Missions Analyst
- Consultant
- Scientist

OTHER RESOURCES

- American Society for Precision Engineering
- American Physical Society
- IEEE

UCONN RESOURCES

- Department of Electrical and Computer Engineering and Physics
- Optical Society of America
- Society of Photonic Instrumentation Engineers
- Engineering Student Leadership Council
- Tau Beta Pi
- Society of Hispanic Professional Engineers
- National Society of Black Engineers
- Women in Math, Science and Engineering
- Society of Women Engineers